FILE NOTATIONS

Entered in N I D File ✓
Entered On S R Sheet ✓
Location Map Pinned ✓
Card Indexed ✓
I W R for State or Fee Land

Checked by Chief
Copy N I D to Field Office
Approval Letter ✓
Disapproval Letter

COMPLETION DATA:

Date Well Completed 7-12-58
CW WW TA
OW OS PA

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log 10-3-58
Electric Logs (No.) 2
E ✓ I E-I GR GR-N Micro
Lat Mi-L Sonic Others Radioactivity Log

ORIGINAL FORWARDED TO CASPER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

LAND OFFICE Utah
LEASE NUMBER 01399
UNIT Southman Canyon #1

U. S. GEOLOGICAL SURVEY
RECEIVED
OCT 3 - 1958
OIL & GAS BR.
SALT LAKE CITY, UTAH

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 1958,

Agent's address 748 North Avenue
Grand Junction, Colorado

Company El Paso Natural Gas Company

Signed ORIGINAL SIGNED J. F. IADLOCK

Phone CH 3-3280

Agent's title Petroleum Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
										6-15-58 Spudded well
										6-18-58 Ran 8 jts 10 3/4" surface casing set @ 198' cemented w/150 sks reg. cement.
										6-21-58 Lost circulation @ 570' drilled to 914' squeezed open hole from 914-570 w/500 sks cement for lost circulation.
										6-26-58 Hit water sand @ 1850'. Started flowing water at 70 bbls per hour, mudding up to shut off water.
										6-30-58 T. D. 2936' Drilling ahead.

NOTE.—There were NO runs or sales of oil; NO M cu. ft. of gas sold; NO runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25706-6 U. S. GOVERNMENT PRINTING OFFICE

ORIGINAL FORWARDED TO CASPER

Form 9-331a
(Feb. 1951)

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

Land Office Salt Lake
Lease No. Utah 01309
Unit Southman Canyon

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U. S. GEOLOGICAL SURVEY
RECEIVED
JUN 5 - 1958
OIL & GAS CO.
SALT LAKE CITY, UTAH

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 2, 1958

Well No. 4 is located 797 ft. from {N} line and 839 ft. from {E} line of sec. 29

NE NE Sec 29 (¼ Sec. and Sec. No.) | 10S (Twp.) | 24E (Range) | SLB & M (Meridian)

Wildcat (Field) | Uintah (County or Subdivision) | Utah (State or Territory)

The elevation of the derrick floor above sea level is 5268 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

It is intended to drill a well with rotary tools to the Mesaverde formation using mud circulation, and to set intermediate casing at the top of the Mesaverde and air drill to a total depth of approximately 7005' possible productive intervals will be perforated and sand oil fractured.

Casing Program:
10 3/4" surface @ 200' with cement circulated to surface.
7" intermediate @ 4200' w/300 sks cement.
5" liner through possible productive intervals
Cemented from total depth to liner hanger.

CONDITIONS OF APPROVAL ATTACHED
ORIGINAL FORWARDED TO [illegible]

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company El Paso Natural Gas Company

Address 748 North Avenue

Grand Junction, Colorado

Reg. Agent Salt Lake City

6-2-58

By L. J. Fallock

Title Petroleum Engineer

GPO 9 18 507

ORIGINAL FORWARDED TO CASPER

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Utah
LEASE NUMBER 01309
UNIT [illegible]

U. S. GEOLOGICAL SURVEY
RECEIVED
OCT 3 - 1958
OIL & GAS BR.
SALT LAKE CITY, UTAH

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 19 58, ORIGINAL SIGNED J. F. TADLOCK

Agent's address 748 North Avenue *Company* El Paso Natural Gas Company

Grand Junction, Colorado *Signed*

Phone CH 3-3200 *Agent's title* Petroleum Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
7-2-58										Cut Core #1 3353 - 3395 Rec 39' 23' ss. Ran DST #1 3335-3395 T.O. 1 hour, OTS 10 minutes. Gauge TSTM Rec 450' GCM.
7-5-58										Cut Core #2 3511 - 3571, full recovery shale & siltstone.
7-10-58										DST #2 4093-4132. T. O. 2 hrs OTS 8 min. Gauge 380 MCF/D. Rec. 190' GCM No H_2O.
7-13-58										DST #3 Misrun. Ran DST #4 4354-4400 OTS 8 min. Gauge 77 MCF/D. Rec. 10' mud.
7-16-58										Ran DST #5 4610-4674 No gas to surface. Rec. 900' muddy water.
7-21-58										Ran DST #6 5080-5135. Weak blow, died in 10 min. NOTS. Rec. 300' drilling mud.
7-22-58										Cut Core #4 5183-5223, full rec. 11' ss, 29' sh.
7-23-58										DST #7 5174-5223. T. O. 2 hrs., weak blow, died 1 hr 45 min. No gas. Rec. 50' Drilling mud.
7-25-58										Set 7" casing @ 5216'.
7-27-58										Attempted to drill with air, could not dry up hole.
7-31-58										Squeezed open hole and mudding up prep to drill ahead with mud.

NOTE.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold;

..... runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1960)

ORIGINAL FORWARDED TO CASPER

16—25708-8 U. S. GOVERNMENT PRINTING OFFICE

SOUTHMAN CANYON #4

Uintah County, Utah

CORES

¢ #1: 3353-95'

Rec. 39'

2'	Ss, gry, m-cg, w/cmt, s & p, fri, glauc, sl gas odor
2'	Silst, gry-gn, sdy, s/carb incl
4'	Ss, gry, fg, abt vari-col sh incl,
3'	Ss, gry, fg, w/cmt, fri, N.S.
4½'	Sh, dk gry, w/ind, s/blk carb stks
13½'	Ss, gry, silty-vfg, w/cmt, w/sort, N.S.
1'	Ss, gry, vfg, silty, w/sh incl
9'	Sh, dk gry, ind, s/in/b, vari-col sh

¢ #2: 3511-71'

Rec. 60'

Sh & Silst

¢ #3: 4358-4400'

Rec. 42'

2'	Ss, lt gry, mg, w/cmt, mica, fri, glauc, s & p, gas odor, faint blue fluor w/lt gry sh incl
6'	Ss, lt gry, mg, m/cmt, fri, s & p, gas odor, spotty fluor a/a
1'	Sh, gry-gn, waxy, w/ind
3'	Ss, gry, vfg, hd, w/cmt, tt, spotty fluor a/a, sl gas odor
2'	Sh, lt gry, silty, w/ind
6'	Sh, dk gry, silty, w/ind
2½'	Ss, lt gry, vfg, w/cmt, mica, w/sort, no odor, spotty fluor a/a
1½'	Sh, dk gry, silty, w/thin stks vfg ss
18'	Sh, dk gry-blk, w/ind, in/b w/dk gry ind sh

¢ #4: 5183-5223'

Rec. 40'

9'	Ss, lt gry, fg, w/cmt, w/sort, s & p, fri, carb, tr spotty fluor, fair cut; s/dk gry-blk in/b sh
2'	Ss, lt gry, vfg & silty, w/cmt, hd tt, s & p, tr fluor a/a
27'	Sh, dk gry & dk gry-blk ind, s/blk waxy carb; carb stks; in/b gry hd silst; ss, lt gry, vfg - silty, w/cmt, carb, s & p from 5203½-05'
1'	Ss, lt gry, vfg-silty, w/cmt, hd tt, s & p
1'	Sh, blk, carb

¢ #5: 5956-94'

Rec. 38'

6'	Sh, blk carb in/b gry, silst stks, gas odor, yel fluor
10'	Sh a/a, highly carb, thick coal stks
7'	Sh, blk carb
4'	Sh, lt gry, ind, silty
6'	Sh a/a
2'	Sh a/a, w/ss stks
3'	Sh, blk carb coal stks

SOUTHMAN CANYON #4

GEOLOGIC INTERPRETATION

The #4 Southman Canyon Unit was drilled in the SE NE NE of Section 29 - T 10 S - R 24 E, Uintah County, Utah, approximately four miles southeast of Southman Unit #1 and Southman Unit #3. The test was spudded in the Uinta formation and drilled 1360' into the Mesaverde to a total depth of 6030'. Electric Log correlation established the #4 Unit to be structurally higher than Units #1 and #3 by approximately 700' on top of the Wasatch, and 1000' on top of the Mesaverde.

Uinta & Green River Formations

Typical sections of the Uinta and Green River were penetrated with normal high gas readings and oil shales thruout the Green River Formation. Excessive gas pressures were encountered along with some water from the depth of 1331' to 1420'.

A drill stem test of this interval was considered unnecessary due to the high gas content usually associated with the Green River oil shale. No thickening or thinning was noted in the Green River between Southman Canyon Units #3 and #4.

Wasatch Formation

The usual sand, silt and shale lithology prevailed thruout the Wasatch Formation, with an apparent thinning of 260 feet from Southman Units #1 and #3 to Southman Unit #4. The Wasatch gas zone present in Southman Canyon Unit #2 was shaled-out in Southman Unit #4.

Two drill stem tests were taken while drilling the Wasatch, both of which flowed gas to surface. The first test, DST #1 3335-95', was too small to measure. The second test, DST #2 4093-4132', flowed gas to surface in eight minutes with an initial guage of 380 MCF and a final gauge of 550 MCF. This sand body should show a considerable increase in gas after sand fracturing. The equivalent sand section was poorly developed in Southman Canyon Units #1 and #3, indicating an increase in porosity and permeability to the south and east.

Paleocene-Mesaverde Formations

Two drill stem tests were taken in the transition zone overlying the Mesaverde. The first interval, between 4354' and 4000', flowed 77 MCFGPD and levelled off to 49 MCF when the tool was shut in. The second test of the Paleocene, between 4610' and 4674', recovered 900' muddy water.

Sands tested in the Mesaverde were presumably void of carrying water, but with the commencement of air drilling, the water bearing sands were quickly detected. Consequently, air drilling operations were ceased and the drilling with a mud medium resumed. Since air drilling was successful at Southman Canyon Unit #3, it can be readily accepted that the sands within the Mesaverde at Southman Unit #4 possessed an increase in porosity and permeability, allowing the penetrated sand sections to give up water.

This increased porosity and permeability became more apparent after drilling into the sand section between 5936-56'. The gas pressures cut the 8.8# mud to 7.8# and began unloading the hole. Therefore, sands in both the Wasatch and the Mesaverde Formations appear to be better developed to the southeast of Southman Canyon Units #1 and #3 towards the Douglas Arch. Local highs and noses in this vicinity should warrant further study for possible gas reserves.

EL PASO NATURAL GAS COMPANY

GEOLOGICAL REPORT ON DRILLING

WELL COMPLETION REPORT

GEOLOGICAL DATA ON LOGS AND SURVEYS

TYPE	DATE	FROM	TO	COMPANY
E.S, I.E.S., Microlog E.S. Log	7-15-58	202	4521	Schlumberger
Microlog	7-23-58	4520	5217	"
E.S.	8-12-58	5217	6030	"
Microlog	8-12-58	5217	6030	"
R. A.	8-16-58	6030	2900	Welex

DRILL STEM TESTS SEE PERFORATION

NO.	INTERVAL	DESCRIPTION
1	3335-95	450' M & GCW
2	4093-4132	Ggd 550 MCF; Rec. 190' Mud
3	4351-4400	Test Failed
4	4354-4400	Ggd 77 MCF; Rec. 10' Mud
5	4610-74	Rec. 900' Muddy Wtr.
6	5080-5135	Rec. 300' Drlg. Mud
7	5174-5223	Rec. 50' Drlg. Mud
8	5786-5812	Rec. 25' Drlg. Mud

CORE SEE PERFORATION

NO.	INTERVAL	DESCRIPTION
1	3353-95	Rec. 39' Ss & Sh
2	3511-71	Rec. 60' Sh & Silst
3	4358-4400	Rec. 42' Ss & Sh
4	5183-5223	Rec. 40' Ss & Sh
5	5956-94	Rec. 38' Sh

Form 22-25 (3-57)

EL PASO NATURAL GAS COMPANY
GEOLOGICAL - ENGINEERING - DRILLING
WELL COMPLETION REPORT

ENGINEERING DATA - TUBULAR RECORD

SIZE	WEIGHT-GRADE	THREADS	MAKE	AMOUNT	DEPTH SET	PURPOSE
10 3/4	32			188	198	Surface
7	20 & 23			5206	5216	Intermediate
5	18# D.W.			904	5121-6025	Production Liner
2	4.7# J				5947	Tubing

CEMENTING RECORD

SIZE CSG	SIZE HOLE	SXS	TYPE	TOP OF CEMENT	METHOD	PLUGS	CUT AND PULLED
10 3/4	15	150	Regular	Circ. to Surf.	Pump	Plug	
7	8 3/4	400	Poz-Reg.	3610	"	"	
5	6 1/4	120	Reg.	Unknown	"	"	

PERFORATING

SIZE CSG.	TYPE	NO. FT.	FROM	TO	REMARKS
5	Perfojet	4	5942	5966	Radioactive Log

TREATMENTS
(RECORD TYPES, DEPTHS, PRESSURES, AMOUNTS)

1. Attempted to acidise perforations from 5942-66 with 1000 gal. Howco 7½% MCA. Could not breakdown with 3100 p.s.i. Gauge before acid - 600 MCF/D.

GAUGED AFTER 1500 MCF/D

2. Set Howco HM Packer at 5657, acidized perforations from 5942-66 with 500 gal. 15% MCA. Breakdown pressure 5700 p.s.i., Standing pressure after job - 1100 p.s.i.

GAUGED AFTER 2060 MCF/D

3. Fractured interval from 5942-66. Loaded hole and broke down w/1380 gal. #2 D.O., fractured w/4000 gal. Visofrac and 4600# 20-40 Sand. Inj. Rate 5 bbl/min. Dropped 1 set of 10 balls each and pumped 1300 gal. Visofrac w/3/4#/gal. sand and balled off. Could not release balls. Breakdown pressure 4200 p.s.i.; Treating pressure 4200 p.s.i.; 4500 p/s.i.; Maximum pressure 7000 p.s.i.; Gauge after Frac. - 7000 MCF/D w/heavy oil spray

ORIGINAL FORWARDED TO CASPER

U-01309

Ref #3

EL PASO NATURAL GAS COMPANY
GEOLOGICAL - ENGINEERING - DRILLING
WELL COMPLETION REPORT

DRILLING DATA

OPERATOR El Paso Natural Gas Company LAND OFFICE _____ LEASE NO. _____

WELL NAME AND NO. Spethman Canyon STATE Utah FIELD Spethman Canyon

¼ SEC. 29 TWP. 10 South RGE. 24 East COUNTY Uintah S.M. _____

LOCATION 830' NL, 797' EL (SE NE NE)

ELEVATIONS 5258' GR. 5269' KB _____ ENGINEER Max V. Rittmann

WELL STATUS Shut-in Gas Well GEOLOGIST Jack Shaughnessy

DATE 7-13-58

APPROVED _____

CONTRACTOR Bullock Drilling Company

TYPE OF TOOLS Rotary

COMMENCED DRILLING 6-16-58

COMPLETED DRILLING 8-12-58

COMPLETED WELL 8-26-58

TOTAL DEPTH DRILLED 6030'

PLUGGED BACK DEPTH _____

GEOLOGICAL MARKERS	DEPTH
Uinta	Surface
Green River	320?
Wasatch	2964'
Paleocene	4296'
Mesaverde	4670'

PRODUCTION DATA

DATA OF I.P. TEST 9-12-58 DATE OF F.P. TEST _____

I.P. _____ BD GRAVITY _____ API° F.P. _____ BD GRAVITY _____ API°

TYPE OF GAS MEASUREMENT Back Pressure TYPE OF GAS MEASUREMENT _____

MCFPD 4,700 GAUGED 20 HRS. MCFPD _____ ABSOLUTE _____

WATER _____ BD _____ PPM NaCl WATER _____ BD _____ PPM NaCl

ISIPT 2836 psig ISIPC 2850 psig FSIPT _____ FSIPC _____

FLWG PT _____ FLWC PC _____ BHP _____

CHOKE SIZE _____ TUBING SIZE 2" PRODUCING DEPTHS 5944 TO 5966, _____ TO _____

TO _____, _____ TO _____

ORIGINAL FORWARDED TO CASPER

REMARKS Well tested through separator w/121 BPD of 61 gravity oil. GOR 366, 618

SOUTHMAN CANYON #4

Uintah County, Utah

DRILL STEM TESTS

DST #1: 3335-95' Op 1 hr, Strg blow immed, G-T-S 10 min TSTM.
Rec. 450' M & GCW.
IF 43, FF 165, SIP 1432, FH 1760

DST #2: 4093-4132' Op 2 hrs, strg blow immed, G-T-S 8 min, g 380 MCF, g 550 MCF @ end of test. Still incr, SI 1 hr.

15 min.	- 310 MCF	75 min.	- 490 MCF
30 "	- 280 MCF	90 min.	- 500 MCF
45 "	- 416 MCF	105 min.	- 537 MCF
60 "	- 458 MCF	120 min.	- 550 MCF

Rec. 190' Mud, no wtr,
IF 25, FF 48, SIP 2050, IH 2108, FH 2095

DST #3: 4351-4400' Tool opened twice - Misrun

DST #4: 4354-4400' Op 2 hrs, SI 1 hr, fair blow immed. G-T-S 8 min, g 77.57 MCF, g 49 MCF @ end of test.

15 min.	- 77.57 MCF	75 min.	- 60.02 MCF
30 min.	- 70 MCF	90 min.	- 60.02 MCF
45 min.	- 70 MCF	105 min.	- 49 MCF
60 min.	- 64.91 MCF	120 min.	- 49 MCF

Rec. 10' Mud;
IF & FF 20, SIP 1740, IH 2450, FH 2430

DST #5: 4610-74' Op 2 1/2 hrs, fair blow immed, remained thruout, N G-T-S, SI 1 hr, Rec. 900' Muddy Wtr.
IF 50, FF 400, SIP 1720, IH 2395, FH 2370

DST #6: 5080-5135' Op 1 hr, SI 1 hr. 10 min. Wk blow 15 min & died, shutin tool commenced strong blow immed, died in 15 min; source of blow unknown; Rec. 300' ∅ Mud N G-T-S, No Wtr.
IF 88, FF 175, SIP 935, IHP 2825, FH 2800

Southman Canyon #4

DRILL STEM TESTS (Cont'd.)

DST #7: 5174-5223' Op 2 hrs, v wk blow immed, died in 1 hr 45 min., SI 30 min, N G-T-S. Rec. 50' ∅ Mud.
IF & FF 55, SIP 85, IH 2990, FH 2900
Temp: 134°

DST #8: 5786-5812' Op 2 hrs. 11 min., Strong blow immed, decr to weak at end of test. N G-T-S, SI 1 hr 10 min. Rec 25' Mud.
IF 0, FF 20, SIP 645, IH 2680, FH 2650

Form 9-331a
(Feb. 1951)

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60

Land Office Utah
Lease No. 01309
Unit Southman Canyon

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 27, 1958

Well No. 4 is located 797 ft. from {N/S} line and 839 ft. from {E/W} line of sec. 29

NE Sec. 29 — 10S — 24E — 6th
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wildcat — Uintah — Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is ____ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

6-15-58 Spud date.

6-17-58 Ran 8 jts 10 3/4", 32#, surface casing. set at 198.92. Cemented with 150 sacks regular cement with 4% calcium chloride. Cement circulated to surface. Held 500 psi for 30 minutes.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company El Paso Natural Gas Company

Address 748 North Avenue

Grand Junction, Colorado

By R. J. Lalock

Title Petroleum Engineer

Approved AUG 4 - 1958

District Engineer

ORIGINAL FORWARDED TO

GPO 918397-1

Form 9-331 a
(Feb. 1951)

Budget Bureau No. 42-R358.4
Approval expires 12-31-60.

(*SUBMIT IN TRIPLICATE*)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah

Lease No. 01309

Unit Southman Canyon

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	XX
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 27, 1958

Well No. 4 is located 797 ft. from {N} line and 839 ft. from {E} line of sec. 29

NE. Sec. 29 (¼ Sec. and Sec. No.) — 10S (Twp.) — 23E (Range) — 6th (Meridian)

Wildcat (Field) — Uintah (County or Subdivision) — Utah (State or Territory)

The elevation of the derrick floor above sea level is .... ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

7-24-58 T. D. 9220'. Ran 165 jts. 7", 20# and 23# casing, run 9206', set at 9216'. Cemented with 400 sacks 50/50 pozmix and regular cement with 4% gel. Held 1000 psi for 30 minutes.
Top of cement by temperature survey, 3610'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company El Paso Natural Gas Company

Address 743 North Avenue

Grand Junction, Colorado

AUG 4 - [illegible]

Approved [illegible]
District Engineer

By [illegible]

Title Petroleum Engineer

ORIGINAL FORWARDED [illegible] TO CASPER

ORIGINAL FORWARDED TO CASPER

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Utah
LEASE NUMBER 01309
UNIT Seeley Canyon #4

U. S. GEOLOGICAL SURVEY
RECEIVED
OCT 3 - 1958
OIL & GAS BRANCH
SALT LAKE CITY, UTAH

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of August, 1958,

Agent's address 748 North Avenue
Grand Junction, Colorado

Company El Paso Natural Gas Company

Signed ORIGINAL SIGNED J. F. TADLOCK

Phone CH 3-3280

Agent's title Petroleum Engineer

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
										8-1-58 Mudded up @ 5519'.
										8-2-58 Ran DST #3 5786-5812. T. O. 2 hrs, strong blow decr to weak. No gas to surf.
										8-8-58 Drilling @ 5956', well blew out, mudding up with 12# mud to kill well and drill ahead.
										8-11-58 Cut Core #5 5956-5994 sh & sand.
										8-13-58 Set 5" 18# liner @ 6025'.
										8-15-58 Started completing well prep to perforate and sand-oil fracture.
										8-25-58 Ran tubing, completed well, shut well in for test, released rig.

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold;
no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

ORIGINAL FORWARDED TO CASPER

16—25760-6 U. S. GOVERNMENT PRINTING OFFICE

Form 9-331 a
(Feb. 1951)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4
Approval expires 12-31-60

Land Office Utah

Lease No. 01309

Unit Southman Canyon

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 14, 1958

Well No. 4 is located 797 ft. from {N} line and 839 ft. from {E} line of sec. 29

NE Sec. 29 (¼ Sec. and Sec. No.) 10 S (Twp.) 24 E (Range) 6th (Meridian)

Wildcat (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

8-13-58 T. D. 6030'.
Ran 22 jts 5", 18#, Deepwell casing liner, (904') set at 6025'. Top of liner hanger at 5121'. Cemented w/120 sks reg cement. Held 1000 psi for 30 min.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company El Paso Natural Gas Company

Address 748 North Avenue

Grand Junction, Colorado

By [signature]

Title Petroleum Engineer

Approved ... 1958 [signature]

ORIGINAL FORWARDED TO CASPER

Form 9-331 a
(Feb. 1951)

Budget Bureau No. 42-R358.4
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. 01309
Unit Southman Canyon

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	Sandoil Frac X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 27, 1958

Well No. 4 is located 797 ft. from [N/S] line and 839 ft. from [E/W] line of sec. 29

NE Section 29 (¼ Sec. and Sec. No.) | 10 S (Twp.) | 24 E (Range) | 6th (Meridian)

Wildcat (Field) | Uintah (County or Subdivision) | Utah (State or Territory)

The elevation of the derrick floor above sea level is 5268 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

8-15-58 C.O.D. 5991'. Ran Gamma Ray Neutron and MS logs. Perf 5942-5966 w/4 perfojets
8-17-58 Acidized interval w/1000 gal, 7 1/2% Howco MCA, could not break down. per ft.
8-18-58 Set Howco EM packer at 5657' and acidized w/500 gal. 15% Howco MCA. Breakdown pressure 5700 psi.
8-23-58 Set Baker Full Bore packer at 5686'. Fractured interval w/4000 gal viso-frac 4600# 20-40 sand. Dropped 1 set of 10 balls each and balled off. Could not release balls. Injection Rate 5 bbl/min. Breakdown Press. 4200 psi, Treating Press. 4200 psi, 4500 psi, Maximum Press. 7000 psi.
8-25-58 Ran 189 jts 2" EUE 4.7# tubing, set at 5947'.
Well shut in for test.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company El Paso Natural Gas Company

Address 708 North Avenue

Grand Junction
Colorado

By [signature]

Title Petroleum Engineer

Approved [signature]
District Engineer

GPO 9 18 507

ORIGINAL SUBMITTED TO SUPER

ORIGINAL FORWARDED TO CASPER

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Utah
LEASE NUMBER 01309
UNIT Southman Canyon #4

U. S. GEOLOGICAL SURVEY
RECEIVED
OCT 3 - 1958
OIL & GAS DIV.
SALT LAKE CITY, UTAH

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 19 58,

Agent's address 748 North Avenue
Grand Junction, Colorado

Company El Paso Natural Gas Company

Signed ORIGINAL SIGNED J. F. TADLOCK

Phone CH 3-3280

Agent's title Petroleum Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
9-12-58				Tested well 4,700 MCF/D gas with 121 B.P.D. of 41° gravity oil.						
9-12-58 - 9-30-58				Shut in gas well, waiting on pipe line connection, no production taken.						

NOTE.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold;
..... runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

ORIGINAL FORWARDED TO CASPER

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

8-15-58 C.O.D. 5991'. Pressured up on hanger seal, held [illegible] psi. Ran Welex radioactive logs.

8-16-58 Perforated from 5942-66 (Radioactive log) w/4 perfojets per foot. Gauge 600 MCF/D.

8-17-58 Attempted to acidize interval from 5942-66 w/1000 gal. 7 1/2% MCA. Would not break down at 3100 psi. Cleaned out w/air, making 1500 MCF/D w/heavy flow drilling mud, oil and water.

8-18-58 Set Howco BM packer at 5657. Acidized perforations w/500 gal 15% MCA+ Breakdown Press. 5700 psi. Standing Press. 1 hr after job was 1100 psi.

8-20-58 Blowing well, gauge 2060 MCF/D w/small stream of mud, oil and water.

8-23-58 Blowing well, gauge approximately 2000 MCF/D w/small stream oil. No mud or water.

8-23-58 Set Baker Full Bore Ret. Pkr. at 5686'. Fractured interval from 5942-66. Loaded and broke down w/1480 gal. #2 D. O. w/20 gal Hy-Flow, fractured w/4000 gal Viso-frac 4600# 20-40 sand. Inj. rate 5 bbl/min. Dropped 1 set of 10 balls each and pumped 1300 gal viso-frac w/three-fourths # sand per gallon and balled off. Released pressure three times and could not release balls. Well flowed back. Breakdown Pressure 4200 psi, Treating Press. 4200 psi, 4500 psi, Max. Press. 7000 psi. Gauge after frac, 7000 MCF/D w/heavy oil spray.

8-25-58 Ran 189 jts 2" EUE 4.7# tubing set at 5947'. Shut in for test.

9-12-58 Tested well.

ORIGINAL FORWARDED TO CASPER

Budget Bureau No. 42-R356.3.
Approval expires 12-31-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Casper, Wyoming
LEASE NUMBER U-01309
UNIT Southman Canyon Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

Sheet No.

State ~~NEW MEXICO~~ Utah County Uintah Field ~~SAN JUAN~~ Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1958,

Agent's address P. O. BOX 1492 Company EL PASO NATURAL GAS COMPANY

EL PASO, TEXAS Signed R L Davis

Phone ~~XXXXXX~~ KE 2-2911 Agent's title Ass't Supervisor, Gas Accounting Division

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE/NE 29	10S	24E	4				Shut-In			Completed 9-12-58

U. S. GEOLOGICAL SURVEY
RECEIVED
OCT 23 1958
SALT LAKE CITY, UTAH

U. S. GEOLOGICAL SURVEY
RECEIVED
OCT 20 1958
CASPER, WYOMING

NOTE.—There were NO runs or sales of oil; ..... M cu. ft. of gas sold; ..... runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

ORIGINAL FORWARDED TO CASPER

Form 9-329
(January 1950)

16—25706-6 U. S. GOVERNMENT PRINTING OFFICE

SOUTHMAN CANYON #4

UINTAH COUNTY, UTAH

DEPTH	DESCRIPTION
225-50	Ss, gry, vfg, dirty, mica, w/cmt
50-70	Lost Circ.
70-80	Ss a/a, m-cg, uncons, s/cong qtz granules
80-300	Ss a/a, f-mg, no granules
300-10	Ss a/a, m-cg, uncons, tr granules
10-20	Ss, gry, vfg-silty, dirty w/cmt
20-30	Silst, gry, hd
30-50	Sh, lt bn, oil sh
50-60	Sh, dk bn oil sh & lt gry mica calc oil sh
60-410	Sh, dk bn & tn, oil sh
410-20	Silst, lt gry, sdy, mica
20-30	Sh, tn-brn oil sh
30-40	Silst a/a
40-60	Sh, dk bn-blk, oil sh, calc
60-500	Sh, dk bn & lt tn oil sh
500-10	Sh, blk, oil sh
10-30	Sh, dk bn & lt tn oil sh
30-40	Sh a/a w/s/gilsonite
40-50	Sh a/a
50-60	Sh a/a w/abt gilsonite
60-70	Sh a/a - no gilsonite
70-80	Lost Circ.
80-600	Sh, dk bn, oil sh; s/gilsonite & uncons sd
600-10	Sh a/a (Samples well washed & unconsolidated from wtr drilling medium)
10-20	Sh, dk bn & lt tn oil
20-40	Lost Circ.
40-60	Sh, dk bn, calc oil sh; s/gilsonite
60-70	Sh, dk bn & lt bn, oil sh - Lost circ
70-914	Lost Circ.
	Cemented Lost Circ. Zone
914-40	Sh, lt & dk bn, calc, oil sh - brn-gold-yell oil sh fluor
40-50	Sh a/a only v/small cuttings well washed
50-70	Sh, dk bn, rotten, oil sh
70-1010	Sh, lt bn & tn oil sh, well washed
1010-30	Sh, dk bn, oil sh
30-40	Sh, lt tn, oil sh
40-50	Lost Circ.
50-60	Sh, lt tn, oil sh
60-1100	Lost Circ.

1100-90	Sh, lt & dk bn, oil sh
90-1200	Sh, tn; oil sh; s/tn-lt bn lms
1200-10	Sh, lt gry, calc & gry, hd silst; abt cmt
10-40	Sh, dk bn & tn oil sh
40-50	Sh a/a, s/dk bn lms
50-70	Sh a/a
70-80	Sh a/a, s/bnlms
80-1320	Sh & lms a/a; tr gry ss, vfg, p/cmt, fri, tr pyr, high gas readings.
1320-40	Sh, dk bn, tn, lt bn oil sh, Gas kicking Wtr.
40-50	Sh, a/a s/lt gry calc oil sh; tr ss a/a
50-80	Sh a/a
80-1420	Sh, blk, dk bn, lt bn, oil sh. Hole unloaded while making trip.
1420-40	Sh a/a
40-1500	Sh, lt & dk bn oil sh
1500-10	Sh a/a, s/tn oil sh
10-40	Sh a/a, stk ss, gry, vfg, p/cmt
40-50	Sh a/a, fossil, s/bn lms, tr ss a/a
50-70	Sh a/a, highly fossil (Ostracods), tr ss a/a
70-80	Sh a/a, decr in fossils
80-90	Sh a/a, stk ss, gry, vfg, dirty
90-1600	Sh a/a, highly fossil (oolitic)
1600-10	Sh fossil a/a
10-30	Sh a/a, stk ss, gry, vfg a/a
30-50	Oolitic Zone (Sample pred fossils); sh a/a
50-60	Sh, lt & dk bn oil sh & gry silst; s/lt gry sh
60-70	Sh, lt gry, silty
70-90	Lost Circ.
90-1700	Sh a/a & oolitic zone a/a
1700-20	Oolitic a/a, s/sh a/a
20-40	Sh a/a, s/ss, wh-gry, vfg, p/cmt, silty
40-60	Ss a/a, s/sh a/a, fossil
60-70	Sh, lt & dk gry, oil sh a/a
70-1800	Sh, lt gry, fossil
1800-10	Ss, wh, silty - vfg, p/cmt, fri, abt Ostracods
10-30	Ss a/a w/sh, lt & dk gry
30-70	Sh, lt & dk gry; stk ss a/a
70-90	Sh a/a, fossil
90-1900	Sh, dk bn, lt bn oil sh
1900-20	Sh, lt & dk gry, w/bn oil sh; fossil
20-40	Ss, wh, vfg, p/cmt, fri
40-50	Ss a/a w/dk bn oil sh
50-60	Sh, dk bn & blk oil sh; s/ss a/a
60-70	Ss, wh, vfg, p/cmt, fri, s/lt bn oil sh
70-90	Ss a/a
90-2000	Oolitic Ostracodal Zone

2000-10	Ss, wh & gry, vfg, p/cmt; Oolitic a/a
10-20	Sh, lt & dk bn, oil sh
20-80	Sh, lt & dk gry, abt/ss, wh, silty-vfg, p/cmt, fri
80-2110	Ss, a/a
2110-20	Ss a/a w/dk gry sh
20-40	Sh, dk gry, silty, ind
40-60	Sh, dk bn oil sh, fossil
60-70	Ss, wh, vfg, p/cmt, fri
70-80	Ss a/a w/dk gry-blk sh
80-2200	Sh, dk gry, silty, highly fossil
2200-20	Sh a/a w/stk ss a/a
20-40	Sh, dk gry, lt gry; s/dk bn oil sh
40-70	Sh & ss a/a in/b, fossil
70-2300	Sh, dk gry, ind
2300-20	Sh, dk gry, ind w/in/b bn oil sh
20-60	Sh, dk bn oil sh
60-70	Sh a/a w/in/b dk gry sh, s/Ostracod
70-80	Ss, gry, vfg, p/cmt, fri, s/highly fossil
80-90	Ss a/a w/sh dk gry ind, fossil
90-2410	Sh a/a
2410-30	Sh, dk bn & blk oil sh
30-80	Sh, dk gry, ind, silty
80-90	Sh, dk gry & dk bn ind
90-2500	Sh a/a w/s/dk bn & tn oil sh Mixed Mud for drilling medium
2500-20	Sh, dk bn, tn, oil sh, calc
20-30	Sh a/a, s/blk carb sh
30-40	Sh a/a in/b w/dk gry ind sh (no blk sh)
40-2610	Sh a/a; s/bn xln dolo, fossil, tr oolitic lms
2610-20	Silst, gry hd & gry soft bent sh
20-30	Ss, wh, fg, w/cmt, tt & gry silst & bent a/a
30-60	Silst & Bent a/a
60-70	Sh, dk gry ind in/b w/bn & blk oil sh; <u>Shell frag</u>
70-90	Ss, wh, vf-fg, w/cmt in/b w/bent a/a
90-2700	Ss & Silst in/b a/a; bent a/a
2700-30	Ss, wh, fg, w/cmt, tt, w/silst gry hd & bent
30-40	Sh, gry, bent, soft; gry-gn ind sh; <u>tr blk carb</u>
40-50	Sh, dk bn, fossil, ind, shell frag, s/ss, fg a/a
50-60	Sh, dk gry, ind & bent sh
60-70	Lms, bn, ostracodal & shell frag.
70-80	Lms a/a, s/ss, wh-lt gry, fg, w/cmt, calc
80-2800	Sh, dk bn, fossil; lms a/a, shell frag; s/blk carb sh
2800-10	Lms a/a, w/sh & shell frag a/a, <u>lt blue fluor</u> & <u>cut</u>
10-20	Lms, sh & shell frag a/a, no fluor or cut
20-30	Lms & sh, dk gry & blk carb
30-40	Ss, wh-gry, vfg, w/cmt, calc
40-50	Sh, dk gry, ind; s/ss a/a
50-60	Lms, dk bn ostra, <u>dull yell fluor w/tr cut</u>; sh a/a

3571-80	Sh, vari-colored, w/ind
80-90	Sh a/a, stk ss, gry-gn, mg, p/cmt, fri, s & p
90-3600	Sh & ss a/a, s/gry bent
3600-10	Sh, vari-colored
10-20	Sh a/a; stk ss, gry-gn, fg, w/cmt, fri, mica
20-30	Ss a/a
30-40	Sh a/a
40-50	Sh a/a, s/gry bent sh
50-90	Sh a/a, stk ss, gry-gn, vf-fg p/cmt, fri
90-3700	Ss, gry-wh, vfg, w/cmt, fri; sh, wh bent
3700-10	Sh, varieg & gry bent sh
10-20	Ss, lt gry, vfg, w/cmt, s/sh a/a
20-30	Sh, rd, ind & gry hd sdy silst; s/ss a/a
30-50	Ss, gry, vf, w/cmt, fri, s & p; sh, rd bent & varieg
50-3810	Sh, varieg, rd, bn, rd, lt & dk gry, bn, w/ind
3810-20	Sh a/a, s/gry hd, silst
20-50	Sh a/a
50-60	Sh a/a, s/gry, fg, p/cmt, fri, s & p, ss
60-80	Sh a/a
80-90	Sh a/a, abt lt & dk gry sh
90-3910	Sh a/a, s/blk carb; stk/ss gry, fg, w/cmt, fri, s & p
3910-40	Sh a/a, rd, bn, grn, purple, blk, gry
40-50	Sh a/a, stk ss, gry vfg, w/cmt, w/sort
50-60	Sh a/a
60-70	Sh a/a, stk ss, gry, mg, w/cmt, fri, w/sort, mica
70-80	Sh a/a, s/tn lms w/lt blue fluor; s/mottled shs
80-4000	Sh a/a
4000-10	Ss, gry, mg, w/sort, p/cmt, calc; abt tn lms
10-20	Sh a/a, w/abt lt & dk gry ind sh; s/gry, vfg ss
20-40	Sh & ss a/a w/tn-gry lms
40-70	Sh varieg abt gry-gn sh; tr vfg gry-wh ss
70-90	Sh a/a
90-4100	Sh a/a, stk ss, gry, f-mg, p/sort, w/cmt, calc, s & p
4100-10	Sh, varieg, s/tn lms nodules & blk carb sh
10-20	Ss, gry, fg & mg, p/cmt, p/sort, fri; s/sh a/a
20-30	Ss, a/a m-cg, s/pinpoint poros - Gas Show
30-32	Sh varieg, s/brn lms
32-40	Sh a/a
40-80	Sh varieg, abt lt & dk gry ind, s/blk carb
80-90	Sh a/a, stk ss, gry, vfg, p/cmt
90-4230	Sh a/a, stk ss, gry, f-mg, w/cmt calc
4230-70	Sh a/a
70-80	Sh a/a, s/lms; one piece wh Oolitic lms
80-90	No Sample - Mud Clabbered - Tr Uncons Sd - Drilling Break - Good Gas Show
90-4300	Ss, lt gry, fg, w/cmt, fri, calc, w/sort, Gas Show, sh, varieg, rd-bn, dk gry-blk, blk, purple, lt & dk gry

5080-90	Ss, wh-gry, fg, p/cmt, p/sort, fri, s & p; s/sh a/a
90-5100	Sh w/ss a/a
5100-10	Ss, wh-gry, fg, m/sort, p/cmt, fri, s & p, glauc, s/sh a/a
10-20	Ss a/a, tr pale lt bl fluor & cut - Gas Show
20-30	Ss a/a; sh, lt & dk gry, ind & blk carb - Gas Show
30-35	Sh a/a
35-40	Sh a/a
40-60	Sh a/a, stk ss fg a/a
60-70	Sh a/a
70-83	Ss, wh-gry, vf-fg, w/sort, fri, p/cmt, s & p, carb; s/sh a/a
83-5223	¢ #4
5223-5519	Drilled w/air - No Gas flowed to Surface, although s/gas was encountered while drilling.
5519-30	Sh, dk gry & dk gry-blk carb; stk ss, gry, vfg, w/cmt, tr lt blue fluor
30-40	Ss a/a w/sh a/a; abt cmt, tr fluor
40-50	Sh a/a, stk ss a/a; pred cmt, tr fluor
50-70	Ss, gry, fg, p/cmt, fri; abt cmt; s/sh a/a Gas Show
70-80	Sh a/a; abt cmt
80-5600	Sh, dk gry-blk & blk carb; stk ss, gry, vfg, p/cmt, mica
5600-10	Sh & ss a/a in/b
10-20	Ss,gry, fg & vfg, w/cmt, calc, s & p, No Show; s/sh a/a
20-30	Ss, gry, fg, w/cmt, fri, s & p, tr fluor pale blue & cut, No Gas Show
30-40	Ss a/a, only vfg " " "
40-50	Ss a/a w/sh, blk carb
50-60	Sh, dk gry-blk & blk carb sh; tr gry silst; stk ss a/a, tr fluor & cut
60-70	Sh & ss a/a, incr in ss, No Gas Show
70-80	Sh a/a
80-90	Sh, blk carb; stk ss, gry, vfg, w/cmt
90-5700	Ss, gry, vfg, silty, w/cmt; s/gry silst & sh a/a
5700-10	Sh, dk gry-blk, carb; abt cmt
10-20	Ss, wh, fg, p/cmt, s/calcite, sl gas incr; s/ sh a;a (abt metal from Packer) small show gas
20-30	Sh & ss a/a & dk gry-blk carb sh
30-40	Sh a/a, stk ss, gry, vfg, p/cmt
40-70	Sh, dk gry-blk & blk carb, coal partgs; stk ss a/a
70-80	Sh, blk carb, coal partgs
80-90	Ss, lt gry, vfg, w/cmt, calc, s/tn fg s & p; yellow fluor & show of gas; s/sh a/a
90-5800	Ss a/a
5800-10	Sh & ss a/a
10-20	Sh a/a
20-30	Sh, dk gry-blk & blk carb sh coal partgs; stk ss, gry, vfg w/cmt s & p; s/gry silst
30-40	Sh a/a
40-50	Ss, gry, vfg, w/cmt, s & p, sl calc; sh a/a
50-60	Sh & ss a/a, s/dk gry ss, silty-vfg, silic, hd w/cmt
60-70	Ss, gry-tn, silty, vfg, w/cmt, pale blue fluor & good cut - Good Gas incr; sh a/a
70-90	Sh, blk carb, incr in coal (low grade coal)

5890-5910	Sh & coal a/a; stk ss, gry, vfg w/cmt, ss
5910-20	Sh & coal a/a; s/gry soft bent sh
20-30	Sh, blk carb, s/gry bent; stk ss, gry, vfg, w/cmt; s/ss, lt bn vfg, p/cmt, fri
30-40	Ss, lt gry-tn, vf & vf-fg, p/cmt, w/sort, clean, clear quartz sub-r - sub-a sd grains, fri; - (Gas Show, 50% dull pale yel fluor, fair cut in btm 4'.)
40-44	Ss a/a, bn staining, 80% fluor a/a, fair cut, good Gas Show
44-56	No Samples - Samples removed via flow line
56-94	¢ #5
94-6000	Sh, blk, carb
6000-10	Ss, vf-fg, w/cem, sl cut
10-30	Sh, gry to blk carb w/in/b coal strks.

Form 9-330

Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Utah
SERIAL NUMBER 01309
LEASE OR PERMIT TO PROSPECT

U.S. GEOLOGICAL SURVEY RECEIVED OCT 3 - 1958 OIL & GAS SALT LAKE CITY, UTAH

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address 748 North Ave. Grand Junction, Colo.

Lessor or Tract Southman Canyon Field Wildcat State Utah

Well No. 4 Sec. 29 T. 10S R. 24 E Meridian 6th County Uintah

Location 797 ft. [N.] of N Line and 839 ft. [E.] of E Line of Section 29 Elevation 5268
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Sadler

Date September 22, 1958 Title Petroleum Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling June 15, 19 58 Finished drilling August 12, 19 58

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 3335 to 3395 No. 4, from 4610 to 4674

No. 2, from 4093 to 4132 No. 5, from 5080 to 5135

No. 3, from 4354 to 4400 No. 6, from 5174 to 5223

IMPORTANT WATER SANDS

5786 5812
5942 5966

No. 1, from approx 1891 to No. 3, from to

No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4	32	8 rd			Baker				Surface
7	20-23	8 rd			Baker				Inter.
5	18	8 rd			Baker				Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	198	150	Pump-Plug		
7	5216	400	" "		
5	6121-6025	120	" "		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

FOLD | MARK

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	198	150	Pump-Plug		
7	5216	400	" "		
5	6121-6025	120	" "		

FOLD | MARK

PLUGS AND ADAPTERS

Heaving plug—Material ---------- Length ---------- Depth set ----------

Adapters—Material ---------- Size ----------

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from Surface feet to 6030 feet, and from ---------- feet to ---------- feet

Cable tools were used from ---------- feet to ---------- feet, and from ---------- feet to ---------- feet

DATES

Tested well September 12 19 58 Put to producing Shut in gas well, 19----

The production for the first 24 hours was ---------- barrels of fluid of which ----% was oil; ----% emulsion; ----% water; and ----% sediment. Gravity, °Bé. ----------

If gas well, cu. ft. per 24 hours 4,700 MCF/D Gallons gasoline per 1,000 cu. ft. of gas 121 bbls/day

Rock pressure, lbs. per sq. in. 3050 psia 61 Gravity oil GOR 366,618

EMPLOYEES

----------, Driller ----------, Driller

----------, Driller ----------, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			See attached Geological Report

[OVER]

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

6-15-58 Spud Date.
6-17-58 Ran 8 jts, 10 3/4", 32# surface csg, set at 198'. Cemented w/150 sks cmt, 4 sks CaCl2 Circ. to surface.
6-22-58 Squeezed lost circulation zone from 570-914 w/500 sks cement, 25 sks gel, 5 sks flocele, 25 sks stratacrete.
6-25-58 Encountered water flow, attempted to mud off, failed, plan to drill ahead w/ water flow.
6-27-58 Mudded up at 2501.
7-2-58 Cut Core #1 3353, 3395. Ran DST #1 3335-95 T. O. 1 hr, immed. blow, GTS 10 min. TSTM, SI 30 min. Rec. 450' mud & gas cut water. IF-43, FF-165, SIP 1432, HH-1760
7-5-58 Cut Core #2
7-10-58 Ran DST #2, 4093-4132 T.O. 2 hrs SI 1 hr, immed. blow GTS 8 min. Gauge 380 MCF/D and 550 MCF/D at end of test still increasing. Rec. 190' GCM, no water. IF-25, FF-48, SIP-2050 IH 2109 FHH-2095.
7-13-58 Cut Core #3
Ran DST #3, Misrun
Ran DST #4, 4354-4400, T. O. 2 hrs, fair blow 1 min. GTS 8 min. SI 1 hr, Initial Gauge 77 MCF/D. Final Gauge 49 MCF/D. Rec. 10' mud. IF-20, FF-20, SIP-1740, IH-2450, FH-2430.
7-15-58 Ran logs.
7-16-58 Ran DST #5, 4610-4674 T.O. 2 1/2 hrs, Fair blow throughout NGTS SI 1 hr. Rec. 900' muddy water IF-50, FF-400, SIP-1720, HH-2395-2370.
7-21-58 Ran DST #6 5080-5135 T. O. 1 hr, wk. blow, died in 15 min. SI 1 hr, 10 min. NGTS Rec. 300' drilling mud. IF-88, FF-175, SIP-935, HH-2825, to 2800. Tool partly plugged.
7-22-58 Cut Core #4
Ran DST #7, 5174-5223. T. O. 2 hrs. weak blow immed. Died in 1 hr 45 min. SI 30 min. No gas. Rec. 50' drilling mud and no water.
7-25-58 Ran 165 jts 7", 20# and 23# csg (5206) set at 5216 cemented w/400 sks pozmix and reg. cmt w/4% gel.
7-27-58 Attempted to drill with air and could not dry up hole.
7-30-58 Set Baker Model K Packer at 5155'. Squeezed open hole from 5155-5498 w/200 sks regular cement. Final pressure 3000 psi.
8-1-58 Found cement 570' above tool, drilled out retainer and made 21' of hole, hole made 1' stream water. Mudded up at 5519'.
8-6-58 Ran DST #8 5786-5812. T. O. 2 hr 11 min. Strong blow decreasing to weak, NGTS, SI 1 hr 10 min. Rec. 25' mud IF-0, FF-20, SI 645, IHH-2680, FHH-2650.
8-8-58 Drilling at 5956, well unloaded. Killed with 12.9#/gal mud.
8-11-58 Cut Core #5 5956-5994
8-12-58 T.D. 6030'. Ran Schlumberger logs.
8-13-58 Ran 22 jts, 5" 18# Deep Well casing (903.93) liner, set at 6025. Top of liner hanger at 5121'. Cemented with 120 sks regular cement. Reversed out no cmt.

OCT 7 1958

9/3/68

Leo Kapp. - Consolidated Oil & Gas

Shell - El Paso old well → Southman Canyon Unit #4

797' N 839' E sec 29 T10S R24E

Uintah Co.

6/7/58 - $10\frac{3}{4}$ surface csg. - 198'

7/29/58 - 7" - 5900 - 400 sx

8/13/68 - 5" liner - 5120-6025' / 120 sx → 3 times to mark

570' water → squeezed off

perf 5942 - 5966

T.D. 6030

(1) 5900 - 6025

(2) 100' plug ½ in and ½ out top of liner (don't know if cement came up)

(3) If cut at 3000' - 100' ½ in ½ out of stub

(4) 100' - ½ in ½ out of $10\frac{3}{4}$ in pipe

(5) 10 sx / marker / mud between all plugs.

✱ also plug across top of Green River and Wasatch Formation if not behind pipe -

PMB

USGS: 4/17/70

35 sx - base of oil shale ≈ 1500'

35 sx - " - " - top ≈ 700'

4/17/70
Paul
Jerry Southman
Consol. Oil & Gas indicated
that their plugging
contract called for
the following program.
R. Smith

Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah, 84111

September 9, 1968

Consolidated Oil and Gas Company
P. O. Box 757
Cortez, Colorado

Gentlemen:

As you requested, we have prepared a plugging program for the Consolidated Oil and Gas Company's Southman Canyon unit well #4, NE¼NE¼ sec. 29, T. 10 S., R. 24 E., Uintah County, Utah, on lease Utah 01309.

The attached diagram shows some of the details of the mechanical arrangement of the well and the zones and fluids encountered.

We recommend the following:

10 sx across perfs 5946-66'
35 sx 1/2 in 1/2 out of 7" stub (assuming 7" is pulled)
35 sx across top of Wasatch @ 2964'
35 sx at 1500' (base of oil shale)
35 sx at 700' (top of oil shale)
35 sx 1/2 in 1/2 out base of surface pipe
10 sx in top with regulation marker

The above plugging program is a suggested program and any acceptable changes should be submitted for our consideration. Also it may be necessary to revise the program to meet the conditions encountered. The information to be placed on the marker in some permanent manner is:

Consolidated Oil and Gas Co.
Southman Canyon unit #4
NE NE sec. 29, T. 10 S., R. 24 E.

Any contraction from the above is acceptable so long as the meaning is clear.

Attached is a list of contractors in the area that perform abandonment work.

Sincerely yours,

(ORIG. SGD.) R. A. SMITH

Rodney A. Smith,
District Engineer

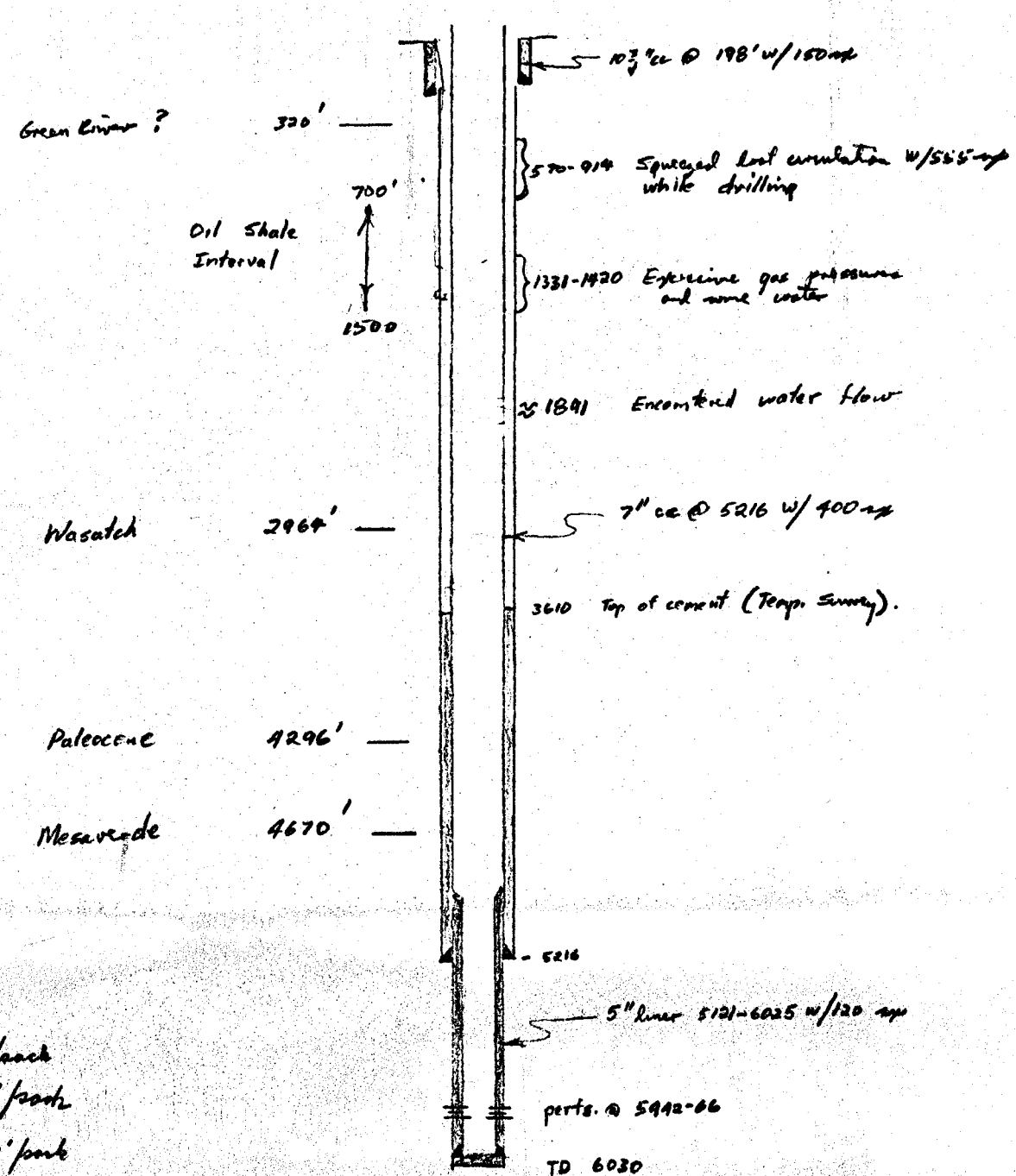
Enclosures
cc: File ✓

CONSOLIDATED OIL AND GAS COMPANY (formerly El Paso Nat. Gas Co.)

SOUTHMAN CANYON UNIT No 4

NE¼NE¼ sec 29-T 10S-R 24E

Utah 01309



fillup

5" (18") = 11'/sack

x" (20-35") = 5'/sack

8¾" hole = 2.6'/sack

10¾" (32") = 2'/sack

October 1, 1969

Consolidated Oil & Gas Corp.
Lincoln Tower Building
1860 Lincoln Street
Denver, Colorado 80203

Re: Well No. Southman Canyon Unit #4,
Sec. 29, T. 10 S., R. 24 E.,
Uintah County, Utah.

Gentlemen:

Upon checking our file on the above mentioned well, we note that our last entry was a plugging program taken by Paul W. Burchell, Chief Petroleum Engineer dated September 3, 1968.

It would be appreciated if you would forward to this office the Notice of Intention to Plug and Abandon and the Subsequent Report of Abandonment in triplicate.

Thank you for your cooperation with respect to this matter.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DeROSE
SUPERVISING CLERK STENOGRAPHER

SD/ah

Enclosures

Colorado Well Service, Inc.
P. O. Box 743
Rangely, Colorado

Carmack Drilling Company
1129 Colorado Avenue
Grand Junction, Colorado

Peacock Well Service
P. O. Box 908
Rangely, Colorado

Barker Well Service
2815 North Avenue
Grand Junction, Colorado

C & S Casing Pulling Service
P. O. Box 778
Craig, Colorado

Mesa Pipe & Salvage Company
P. O. Box 702
Grand Junction, Colorado

Utah-Colorado Casing Pullers & well Plugging
Vernal, Utah

Jim's Casing Service
c/o Jim Tadlock
Vernal, Utah

Willard Pease Drilling Co.
Box 548
Grand Junction, Colorado

4/17/70

USGS:

Southman Canyon Unit - Colo. Casing Pulled (Walter Dooley)

#4

NeNe' sec 29 10S 24E

El Paso & Shell "now" Consolidated O&G

Form OGCC-1 b

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Consolidated Oil & Gas, Inc.

3. ADDRESS OF OPERATOR
Suite 1300, 1860 Lincoln Street, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
NE NE Section 29, T10S, R24E

5. LEASE DESIGNATION AND SERIAL NO.
Utah 01309

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Southman Canyon Unit

8. FARM OR LEASE NAME

9. WELL NO.
4

10. FIELD AND POOL, OR WILDCAT
Southman Canyon Unit

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29, T10S, R24E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5269' KB.

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other)	☐			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Plugging operations were commenced on 4/18/70 and completed on 4/25/70.

4/18/70	Moved in, rigged up, and work tubing.
4/19/70	Pulled tubing
4/20/70	Ran tubing and spotted 10 sx. cement plug across perfs. 5946-66'. Pulled tubing.
4/21/70	Worked 7", shot 7" off @ 2987', worked free. Started laying down 7" casing.
4/22/70	Laying down 7" casing.
4/23/70	Finished laying down 7" casing.
4/24/70	Ran tubing and pumped plugs as follows: 35 sx. 2985' — 35 sx. 700' 35 sx. 1500' — 70 sx. in/out plug bottom surface casing (445')
4/25/70	Erected dry hole marker and set with 10 sx. cement. (Pulled and recovered 2987' of 7" casing.)

18. I hereby certify that the foregoing is true and correct

SIGNED J. D. Thomson TITLE Production Manager DATE Aug. 12, 1970

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

API # 43-04[redacted]1588R

Form 9-593
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
CONSERVATION DIVISION

Sec. 24
T. 10 S.
R. 23 E.
S.L. Mer.

INDIVIDUAL WELL RECORD

PUBLIC LAND: Date March 8, 1968 Ref. No. 4

Land office Utah — State Utah
Serial No. 01307-B — County Uintah
Lessee Shell Oil Co., et al — Field Southman Canyon (Unit)
Operator *Consolidated Oil & Gas Co. — District Salt Lake City
Well No. 7 — Subdivision NE¼NW¼NW¼
Location 373' from N. line and 777' from W. line of sec. 24
Drilling approved September 22, 19 61 — Well elevation 4930 Gr. 4942 KB feet
Drilling commenced September 30, 19 61 — Total depth 6486' feet
Drilling ceased November 23, 19 61 — Initial production 4,300 MCFGPD on 23/64" choke
Completed for production Dec. 6, 19 61 — Gravity A. P. I.
Abandonment approved December, 1993 — Initial R. P.

Geologic Formations		Productive Horizons		
Surface	*Lowest tested*	*Name*	*Depths*	*Contents*
Uinta	Mesaverde	Mesaverde	5654, 5763, 6165, 6225, & 6364'	Gas

WELL STATUS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1961										Drlg	Tstg	GSI
1962												PGW
1984											ABD	
1993												P+A

RECEIVED
JAN 18 1994
DIVISION OF
OIL, GAS & MINING

REMARKS *Drilled and originally operated by Shell Oil Company.

(REPLACEMENT)

U.S. GOVERNMENT PRINTING OFFICE : 1964—O-746-789
893-866

(OVER)